

Docket No.: 104917.127

#7/208 1633
PATENT OFFICIAL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of

Leiden et al. :

Serial No. 09/473,830

Filed: December 28, 1999

For: EFFICIENT AND STABLE IN VIVO
GENE TRANSFER TO CARDIOMYOCYTES
USING RECOMBINANT ADENO-
ASSOCIATED VIRUS VECTORS



Group Art Unit: 1633

Examiner: Y. Connell

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for
Patents and Trademarks
Washington, D. C. 20231

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98, attorneys for Applicants hereby bring the attached references to the attention of the Examiner. The references are listed on the attached form PTO-1449. It is respectfully requested that the information be expressly considered during prosecution of this application and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

A copy of each patent, publication or other information listed on form PTO-1449
is enclosed.

01/09/2001 JADD01 00000089 080219 09473830

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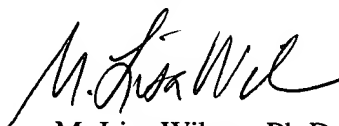
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This Information Disclosure Statement is being submitted after issuance of the first Office Action. The Commissioner is hereby authorized to charge the fee of \$240.00 and any additional fees which may be required for this submission, or credit any overpayment to **Deposit Account No. 08-0219**. A duplicate copy of this sheet is enclosed

Respectfully submitted,

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Date: January 3, 2001

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#7

Subst. Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

104914.127

Application Number

09/473,830

Applicant

Leiden, et al.

Filing Date

December 28, 1999

Group Art Unit

1633

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TECH CENTER 1600, 2200

U. S. Patent Documents

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE
CEB	B1 5,661,133	06/01/99	Leiden, et al.			
02/12/01	5,661,133	8/26/97	Leiden, et al.			
	5,705,388	01/06/98	Couture, et al.			
	5,792,453	08/11/98	Hammond, et al.			
	5,846,528	12/8/98	Podsakoff, et. al.			
	5,858,351	01/12/99	Podsakoff, et al.			1/18/96
	6,100,242	08/8/00	Hammond, et al.			12/29/97

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	Translation	
						YES	NO
CEB 02/10/01	WO 97/26337	7/24/97	PCT				
	WO 97/32990	9/12/97	PCT				
	WO 98/46728	10/22/98	PCT				
	WO 99/07833	2/18/99	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

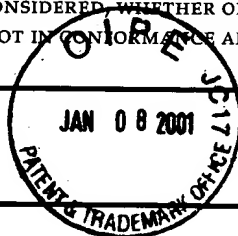
CEB 02/09/01	A 1	Alexander, Ian, et al., "Transfer of Contaminants in Adeno-Associated Virus Vector Stocks Can Mimic Transduction and Lead to Artifactual Results," Hum. Gene Ther. 8: 1911-1920 (1997)
	A 2	Gnatenko, Dmitri, et al. "Characterization of Recombinant Adeno-Associated Virus-2 as a Vehicle for Gene Delivery and Expression into Vascular Cells," J. Invest. Med. 45: 87-96 (1997)
	A 3	Kaplitt, Michael G., et al., "Long-Term Gene Transfer in Porcine Myocardium After Coronary Infusion of an Adeno-Associated Virus Vector," Ann. Thorac. Surg. 62: 1669-1676 (1996)
	A 4	Kessler, Paul D., et al., "Sodium Butyrate Greatly Enhances the Efficiency of Viral Transduction in Adult Ventricular Cardiomyocytes by Adeno-associated Viral Vectors," Circulation, Supp. 1 92: I-296, Abstract 1408 (1995)

EXAMINER

DATE CONSIDERED

EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP § 609;
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SHEET 2 OF 3

Subst. Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number (Optional)	Application Number
	104914.127	09/473,830
	Applicant	
	Leiden, et al.	
	Filing Date	Group Art Unit
	December 28, 1999	1633

TECH CENTER 600/2300

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CD 01/30/99	A 5	Maeda, Yoshikazu, et al., "Efficient Gene Transfer into Cardiac Myocytes Using Adeno-Associated Virus (AAV) Vectors," J. Mol. Cell. Cardiol. 30: 1341-1348 (1998)
↖	A 6	Phillips, Ian M., et al., "Prolonged Reduction of High Blood Pressure With an In Vivo, Nonpathogenic, Adeno-Associated Viral Vector Delivery of AT ₁ -R mRNA Antisense," Hypertension 29: 374-380 (1997)
↖	A 7	Ping, P., et al. "Altered β-Adrenergic Receptor Signaling In Heart Failure, In Vivo Gene Transfer Via Adeno and Adeno-Associated Virus," Microcirculation, 3: 225-228 (1996)
↖	A 8	Dourtis, A. P., et al., "Cardiac Gene Therapy with Adeno-Associated Virus as a Means of Achieving Graft-specific Immunosuppression," Mod. Pathol. 8: 33A, Abstract 178 (1995)
↖	A 9	Rolling, Fabienne, et al., "AAV as a Viral Vector for Human Gene Therapy," Mol., Biotechnol. 3: 9-15 (1995)
↘	A 10	Kessler, et al., "Gene Delivery To Skeletal Muscle Results In Sustained Expression and Systemic Delivery of A Therapeutic Protein," Proc. Natl. Acad. Sci. USA 93:14087-97 (1996)

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